## **Cosmological Correlators Through the Looking Glass**

Wednesday 12 February 2025 11:15 (45 minutes)

I will discuss parity violation in the early universe. I'll outline a no-go theorem that states that vanilla inflation cannot produce parity-violating inflationary correlators, then show how including additional massive states in the early universe can yield non-zero signals that take an intriguing factorised form. For example, the parity odd four-point function of scalar perturbations can be written in terms of bispectra and power spectra. Such a correlator-to-correlator factorisation formula holds for general kinematics and is in principle a testable relation that can be used to determine some fundamental properties about inflation.

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